

- 13
- AS
1. (Amended) A composition for electron emitters of gas discharge devices comprising a mixture of carbon nanotubes and oxygen-containing compounds of alkaline-earth metals.
2. (Amended) The composition according to claim 1 wherein said oxygen-containing alkaline-earth metals are alkaline-earth metal oxides.
4. (Amended) The composition according to claim 3 wherein said diameter is in a range from about 1 nm to about 100 nm.
5. (Amended) The composition according to claim 2 wherein a proportion of said carbon nanotubes in said mixture of carbon nanotubes and alkaline-earth metal oxides is in a range from about 0.1 percent by volume to about 95 percent by volume.
6. (Amended) The composition according to claim 5 wherein said proportion is from about 5 percent by volume to about 90 percent by volume.
7. (Amended) A composition for electron emitters of gas discharge devices comprising a mixture of carbon nanotubes and oxygen-containing compounds of alkaline-earth metals, wherein said carbon nanotubes are produced by a catalytic cracking and pyrolyzing of hydrocarbons.
- pr

12. (Amended) A gas discharge device comprising an electron emitter which comprises an electrically conductive material coated with a mixture of carbon nanotubes and oxygen-containing compounds of alkaline-earth metals.

AL

13. (Amended) The gas discharge device of claim 12 wherein said oxygen-containing compounds of alkaline-earth metals are alkaline-earth metal oxides.

15. (Amended) The gas discharge device according to claim 12 wherein said diameter is in a range from about 1 nm to about 100 nm.

AL

16. (Amended) The gas discharge device according to claim 13 wherein a proportion of said carbon nanotubes in said mixture of carbon nanotubes and alkaline-earth metal oxides is in a range from about 0.1 percent by volume to about 95 percent by volume.

17. (Amended) The gas discharge device according to claim 16 wherein said proportion is from about 5 percent by volume to about 90 percent by volume.

18. (Amended) A gas discharge device comprising an electron emitter which comprises an electrically conductive material coated with a mixture of carbon nanotubes and oxygen-containing compounds of alkaline-earth metals, wherein said carbon nanotubes are produced by a catalytic cracking and pyrolyzing of hydrocarbons.

Please add the following new claims 39-46:

39. (New) The composition according to claim 3 wherein said diameter is in a range from about 1nm to about 50 nm.

40. (New) The composition according to claim 3 wherein said diameter is in a range from about 1 nm to about 20 nm.

41. (New) The composition according to claim 5 wherein said proportion is from about 20 percent by volume to about 90 percent by volume.

42. (New) The composition according to claim 5 wherein said proportion is from about 30 percent by volume to about 90 percent by volume.

43. (New) The gas discharge device according to claim 12 wherein said diameter is in a range from about 1nm to about 50 nm.

44. (New) The gas discharge device according to claim 12 wherein said diameter is in a range from about 1 nm to about 20 nm.

45. (New) The gas discharge device according to claim 16 wherein said proportion is from about 20 percent by volume to about 90 percent by volume.

46. (New) The gas discharge device according to claim 16 wherein said proportion is from about 30 percent by volume to about 90 percent by volume.